

C. REMARKS**1. Amendments to the Claims**

Claim 1 has been amended to add the limitations correct the informality (punctuation error) identified in ¶ 3 of the Final Action.

2. Claim Rejections on Grounds of Obviousness under 35 U.S.C. § 103

In the Non-Final Action dated January 29, 2007, the Examiner rejected Claim 1 for obviousness based on the Li reference ("The Effects of STEF in Finely Parallel Multithreaded Processors" IEEE © 1995) in view of the ARM reference (Furber: "ARM System-on-Chip Architecture", Second Edition © 2000). In the current amendment, new sub-paragraphs (i) and (j) have been added to Claim 1 to introduce a "wait" feature whereby the operation of a given program thread may be stalled, or its operation resumed, based on the internal state of a peripheral device. Applicants submit that this feature is not taught by either the Li reference or the ARM reference. It follows that Claim 1, as currently amended, is not obvious in view of Li and ARM, and is therefore allowable. Because Claims 2-20 are dependent from Claim 1, either directly or indirectly, it also follows that Claims 2-20 are non-obvious and allowable.

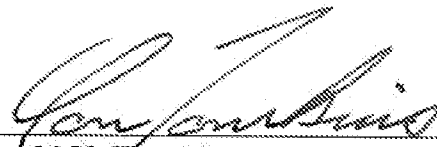
3. No New Matter

It is submitted that the current amendments introduce no new matter into the application. All subject matter contained in the application, as currently amended, was expressly described in or is reasonably inferable from the originally-filed specification, claims, abstract, and/or drawings. More specifically, support for the limitations added to Claim 1 by virtue of the current amendments may be found in paragraph [0038] of the specification as originally filed (per Pub. No. US 2003/0093655).

D. CONCLUDING REMARKS

Applicants respectfully submit that the amendments and remarks presented herein have fully addressed all issues raised in the Non-Final Action dated January 29, 2007, and that the application will be in condition for allowance upon entry of the amendments. Accordingly, Applicants request timely issuance of a Notice of Allowance.

Respectfully submitted on behalf of the
Applicants, by their agent:



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Enclosures:

1. Petition for three-month extension [1 page].